

Shivam Sharma

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LinkedIn GitHub Portfolio

Summary

DevOps Engineer with hands-on experience in AWS, Docker, Kubernetes, Jenkins, and Terraform, specializing in cloud infrastructure automation, CI/CD pipelines, and system security. Experienced in deploying scalable, containerized applications and implementing secure cloud solutions using Python and Linux. Strong understanding of DevOps best practices, automation, and production-grade deployments.

Skills

- Cloud Platforms:** Amazon Web Services (EC2, IAM, S3), Cloud Security
- DevOps Tools:** Jenkins, Docker, Kubernetes, Terraform, Nginx
- Programming & Scripting:** Python, Shell Scripting, SQL
- Version Control:** Git, GitHub
- Operating Systems:** Linux (Ubuntu, Debian)
- Web Technologies:** HTML, CSS

Professional Experience

Skillquest Learnings	DevOps Engineer	May 2025 – Present
<ul style="list-style-type: none">Architected and managed secure VPN infrastructure using WireGuard to enable controlled remote access, reducing unauthorized access attempts by 40%.Designed and deployed Dockerized frontend and Flask backend services with Nginx reverse proxy, ensuring high availability and scalability.Built and maintained CI/CD pipelines using Jenkins to automate build, test, and deployment workflows, significantly reducing manual release effort.Implemented system security measures including Fail2Ban, firewall automation, and access control policies to mitigate brute-force and DDoS attacks.Automated infrastructure monitoring, log analysis, and health checks using Bash and Python scripts.		

Projects

InfraGuard – Cloud Scanner	Jun 2025 – Present
Go Live	
<ul style="list-style-type: none">Designed and developed a full-stack cloud vulnerability scanning platform for AWS using Python (Flask) and RESTful APIs.	

- Implemented automated security assessments for EC2, IAM, and S3 services using AWS SDK (boto3).
- Built role-based access control, secure session handling, and asynchronous scan execution to support scalable usage.
- Generated detailed and actionable cloud security reports through dynamic dashboards.
- Deployed the application with production-grade configurations, CORS handling, and secure authentication mechanisms.

CI/CD Pipeline using Jenkins

Mar 2025 – May 2025

Documentation Link

- Designed and implemented an end-to-end CI/CD pipeline to automate build, test, and deployment of applications on AWS EC2.
- Integrated GitHub webhooks to trigger Jenkins jobs automatically on code changes.
- Deployed Jenkins in a Dockerized environment to ensure consistency and isolation.
- Configured Nginx as a reverse proxy and implemented email notifications for build status.
- Automated Jenkins job backups and basic maintenance tasks to improve reliability.

Education

Guru Gobind Singh Indraprastha University Delhi

Sep 2022 – Sep 2026

B.Tech in Computer Science & Engineering
Greater Noida, India

GPA: 8.0

Additional Technical Exposure

- Hands-on exposure to Kubernetes fundamentals including deployments, services, and container orchestration concepts.
- Experience with Linux server hardening, SSH security, and role-based access control.
- Familiar with IAM least-privilege policies, cloud cost optimization basics, and centralized logging practices.

Certifications

- Simplilearn – Search Engine Optimization
- Internshala Trainings – Web Development

Achievements

- 2nd Runner-Up – DSA Hackathon for solving complex algorithmic problems under time constraints.